IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of

:Docket No. SJO920010014US2

R. S. Beach

:Group Art Unit: not yet assigned

Serial No.:

not yet assigned

: Examiner: Not yet assigned

Filed:

herewith

For:

METHOD OF SIMULTANE USLY INITIALIZING TWO ANTIFERROMAGNETIC

LAYERS IN A MAGNETIC SENSOR" (as amended)

INFORMATION DISCLOSURE STATEMENT WITHIN THREE MONTHS OF FILING OR BEFORE MAILING OF FIRST OFFICE ACTION (37 CFR 1.97(b)

Assistant Commissioner of Patents and Trademarks Alexandria, VA 22313-1450

Dear Sir:

Pursuant to Section 707.05(b) of the MPEP and 37 CFR 1.97 and 1.98, a copy is herewith submitted (attached to form PTO-1449, Rev. 7-80) of documents which may be relevant to the invention as claimed in the above-identified application.

It is requested that the Examiner fully consider the documents cited, initial the leftmost column of the attached PTO Form 1449 adjacent each cited document, and return a copy of the Form 1449 for applicants' records. It is further requested that the documents be cited on the cover of any patent issuing from the subject application.

The citation of the above documents should not be construed as a representation that an exhaustive search has been made, or that other, more pertinent information is not available. Nor does this statement constitute an admission by applicant or applicants' attorney that the information provided herein is necessarily relevant information to applicants' invention. Moreover, applicants reserve the right to establish the patentability of the claimed invention over any of the listed documents should they be applied there-against as references.

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or before the mailing date of a first Office Action on the merits, whichever occurs last. 37 CFR 1.97(b).

CERTIFICATE OF MAILING

I hereby certify that the above paper/fee is being deposited with the United States Postal Service as Express Mail in an envelope Addressed to the Assistant Commissioner of Patents, Alexandria, VA 22313-1450 on

October 24, 2003

Person mailing paper/fee: Mary Lou Domenici

Signature

Respectfully submitted

Ľewis L. Nunnelley, (Reg.No. 42,942)

Patent Agent

Hitachi Global Storage Technologies

Intellectual Property Law Dept. 5600 Cottle Road (NHGB/14-2)

San Jose, CA 95193

Telephone: (408)256-6570

Form PTO 1449 U.S. Dept of Commerce

Rev 7-80 Patent & Trademark Off.

(Use several sheets if necessary)

: Atty. Docket No. : Serial No.

: SJ0920020014US2: not yet assigned

: Inventor: R. S. Beach

: Filed: herewith Group Unit: not yet assigned

U.S. PATENT DOCUMENTS

EXAM.:	: DOCUMENT			CLASS/	FU 1010
INTL.:	: NUMBER	DATE	NAME	= -	FILING
:AA:				SUBCLASS	DATE_
	-,,	10/10/00	R. Xiao et al.	427/548	10/12/99
:AB:	5,465,185	11/07/95	D. E. Heim et al.	360/113	10/15/93
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:AE:	6,249,406B1	06/19/01		360/113	05/29/98
:AF:	•		H. Gill et al.	360/324.11	09/23/96
	6,219,211B1	04/17/01	H. Gill et al.	360/324.11	01/31/00
:AG:	5,867,351	02/02/99	H. Gill	360/113	07/25/97
:AH:	6,469,878B1	10/22/02	A. Mack et al.	360/324.12	
:AI:	6,411,478B1	06/25/02	S. Mao et al.		02/08/00
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:AN:	6,487,056B1	11/26/02			04/07/98
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OTHER PRIOR ART (INCLUD. AUTHOR, TITLE, DATE, PERTINENT PG.,ETC.)

:CA: R. S. Beach et al., "Orthogonal Pinning of Two Ferromagnetic Layers in a Synthetic Spin Valve", June 17 2002, Applied Physics Letters, Vol. 80, No. 24, pages 4576 - 4578.

:CB: O. Redon et al. "Extra Current Channels in Longitudinally Biased Magnetic Tunnel Junctions", Journal of Applied Physics, Vol. 87, No. 9, May 1, 2000, pages 4688-4690.

EXAMINER DATE CONSIDERED

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).